

alternative spliced exons	no. of amino acids encoded
$\alpha$	21
$\beta$	37
$\gamma$	38

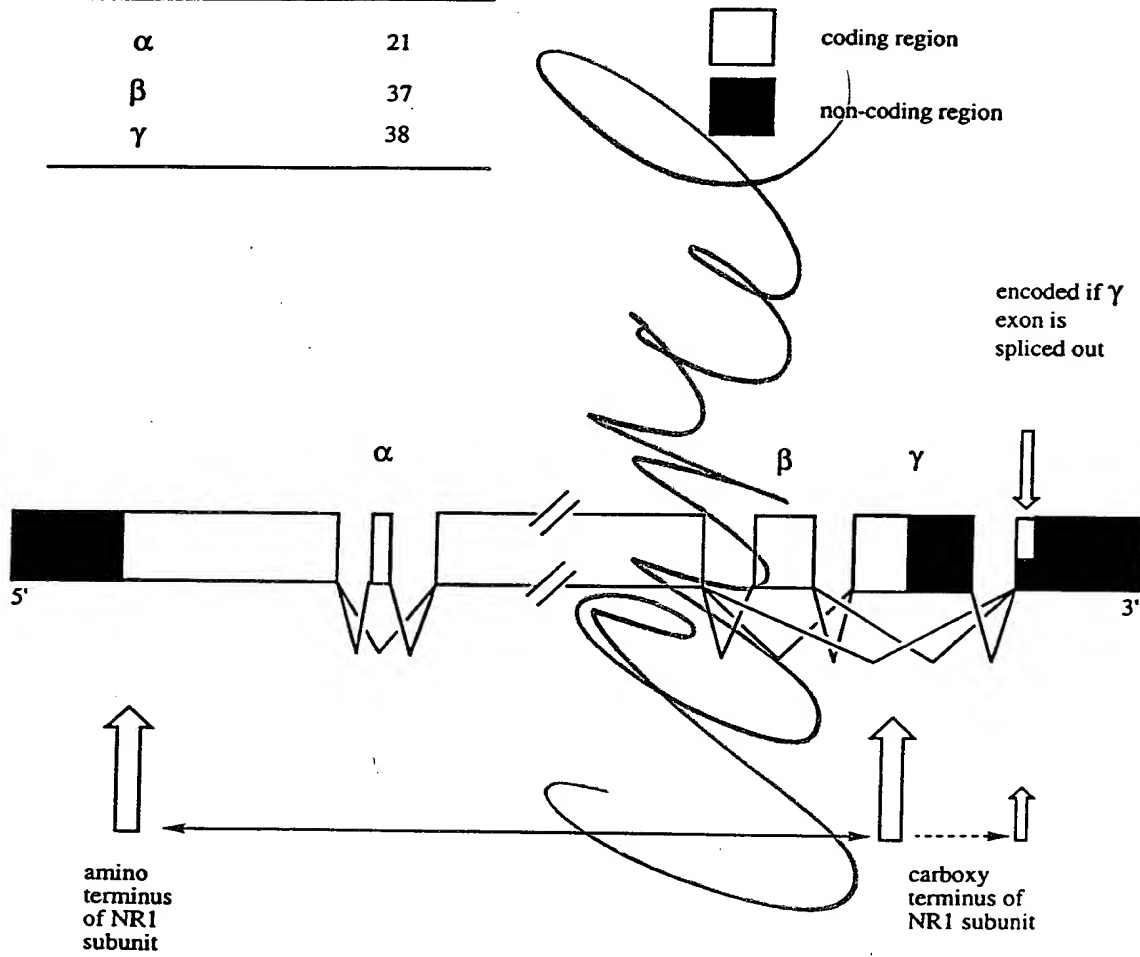
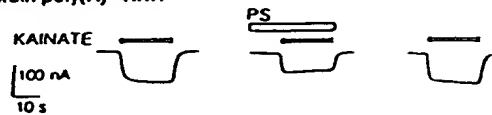
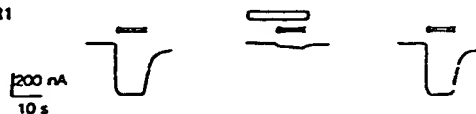


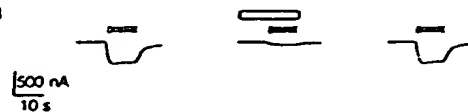
FIG. 1

A Rat brain poly(A)<sup>+</sup> RNA

## B GLUR1



## C GLUR3



## D GLUR6

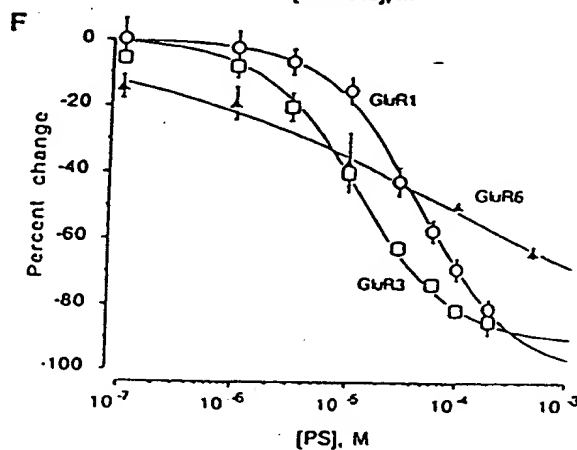
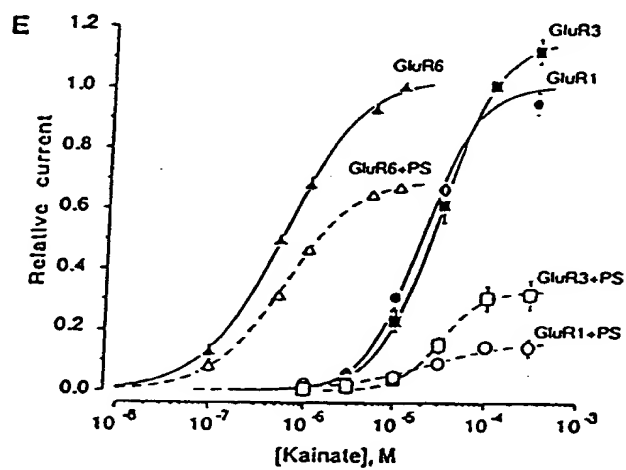
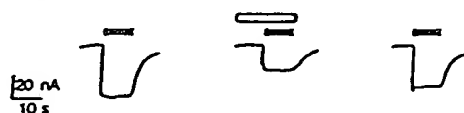


FIG. 2

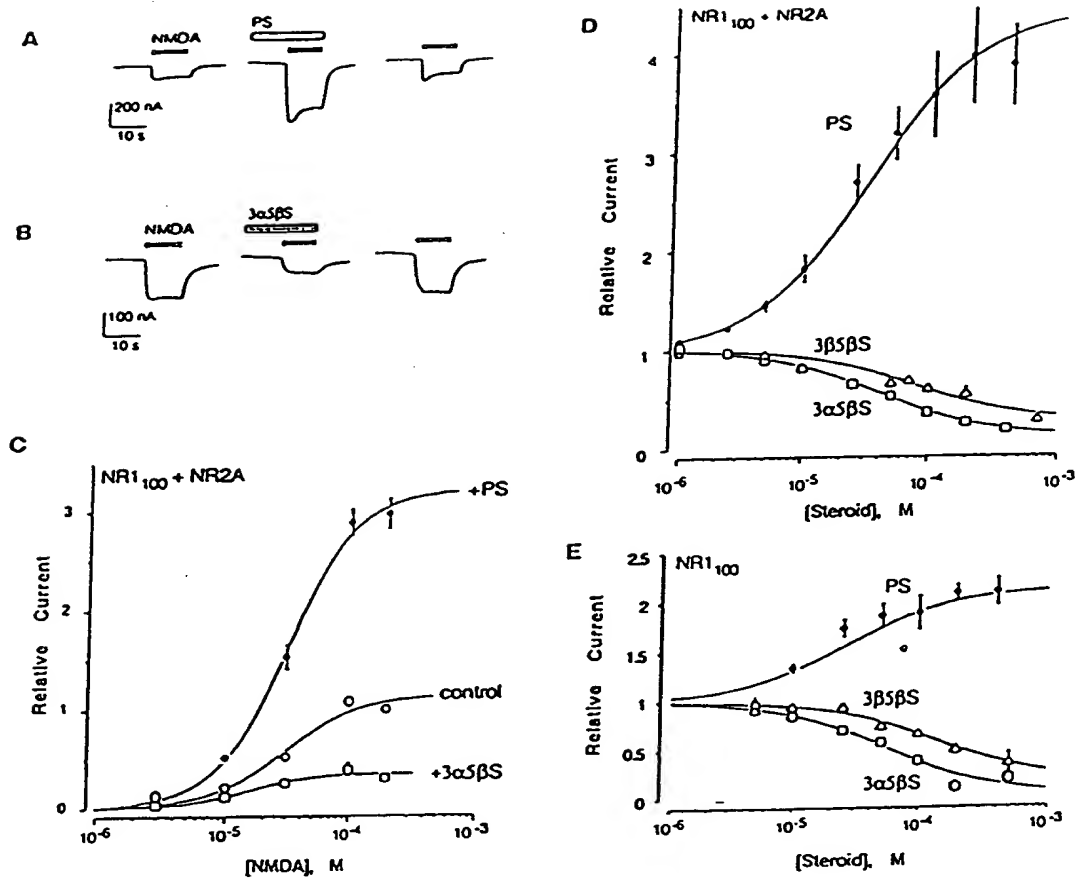


FIG. 3

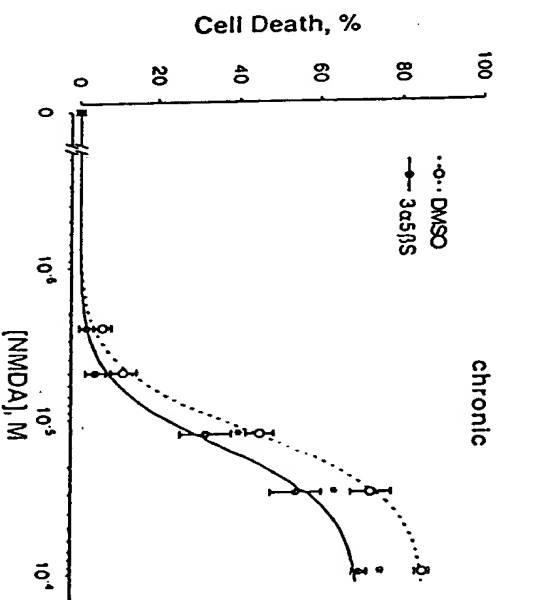
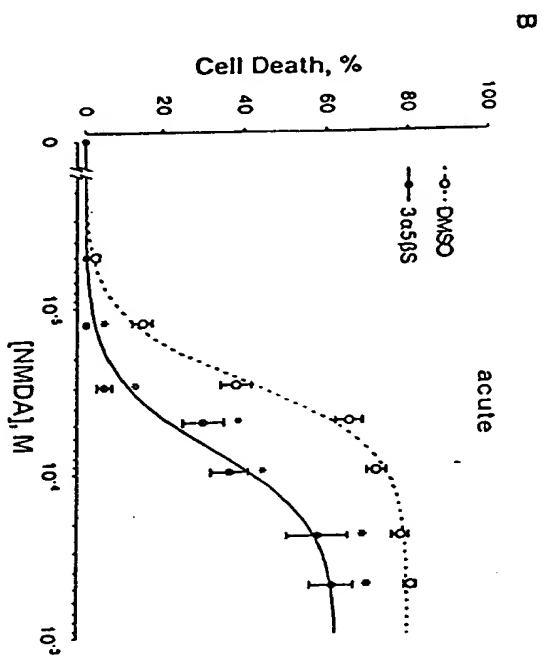
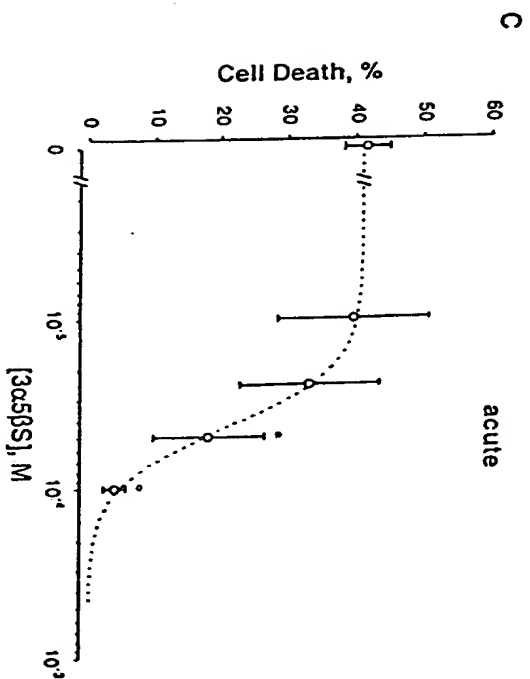
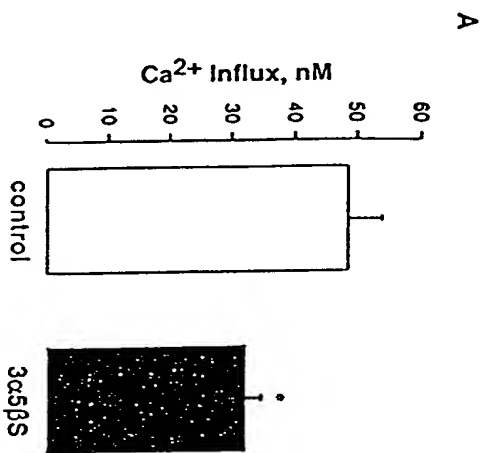


FIG. 4

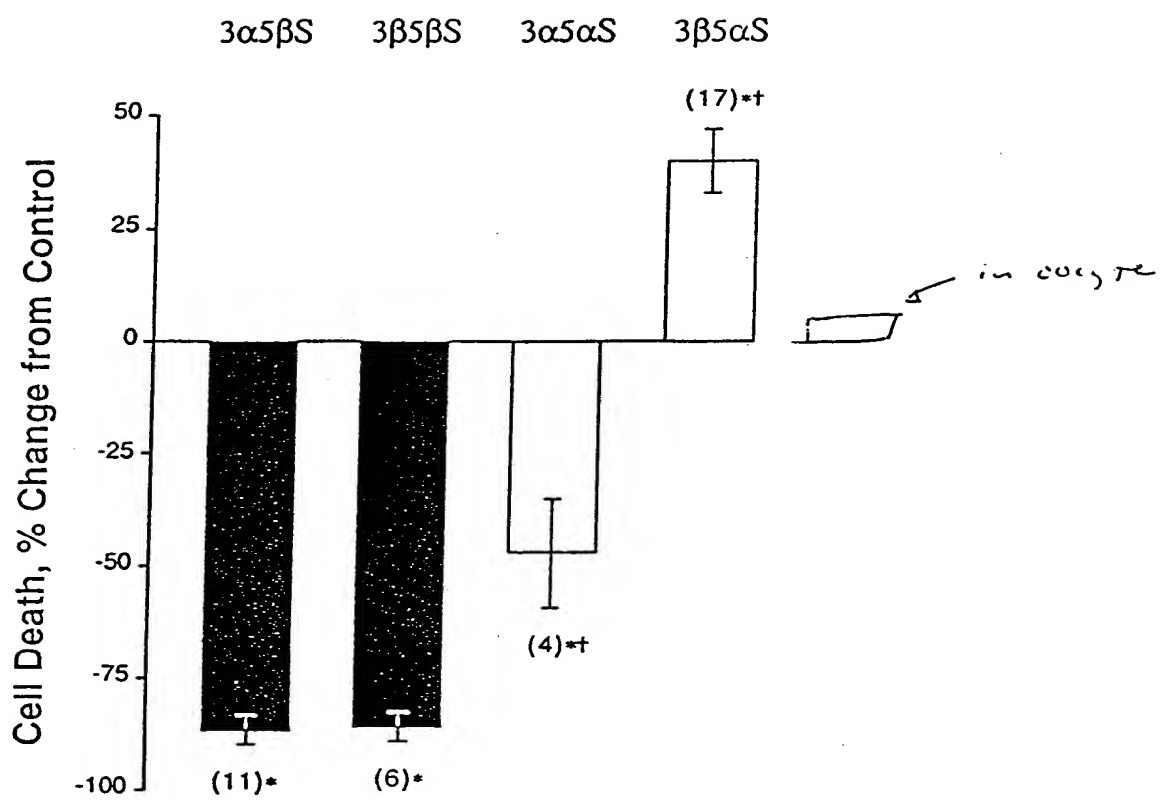


FIG. 5

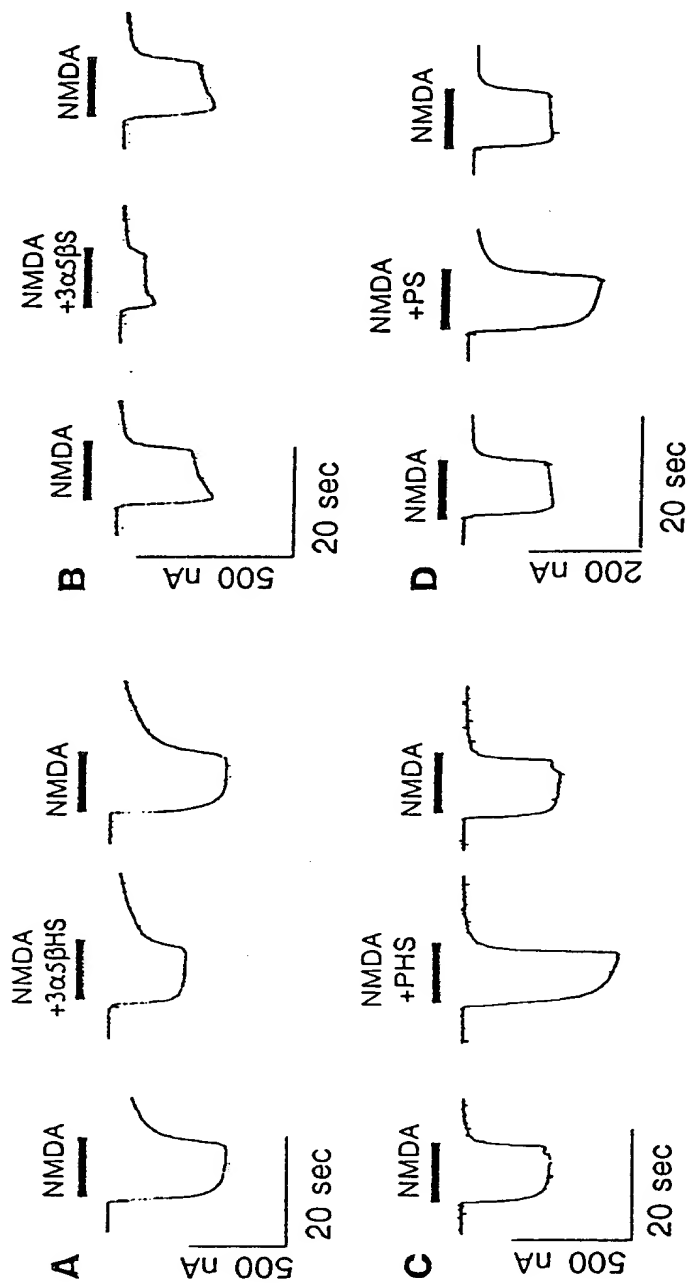


FIG. 6

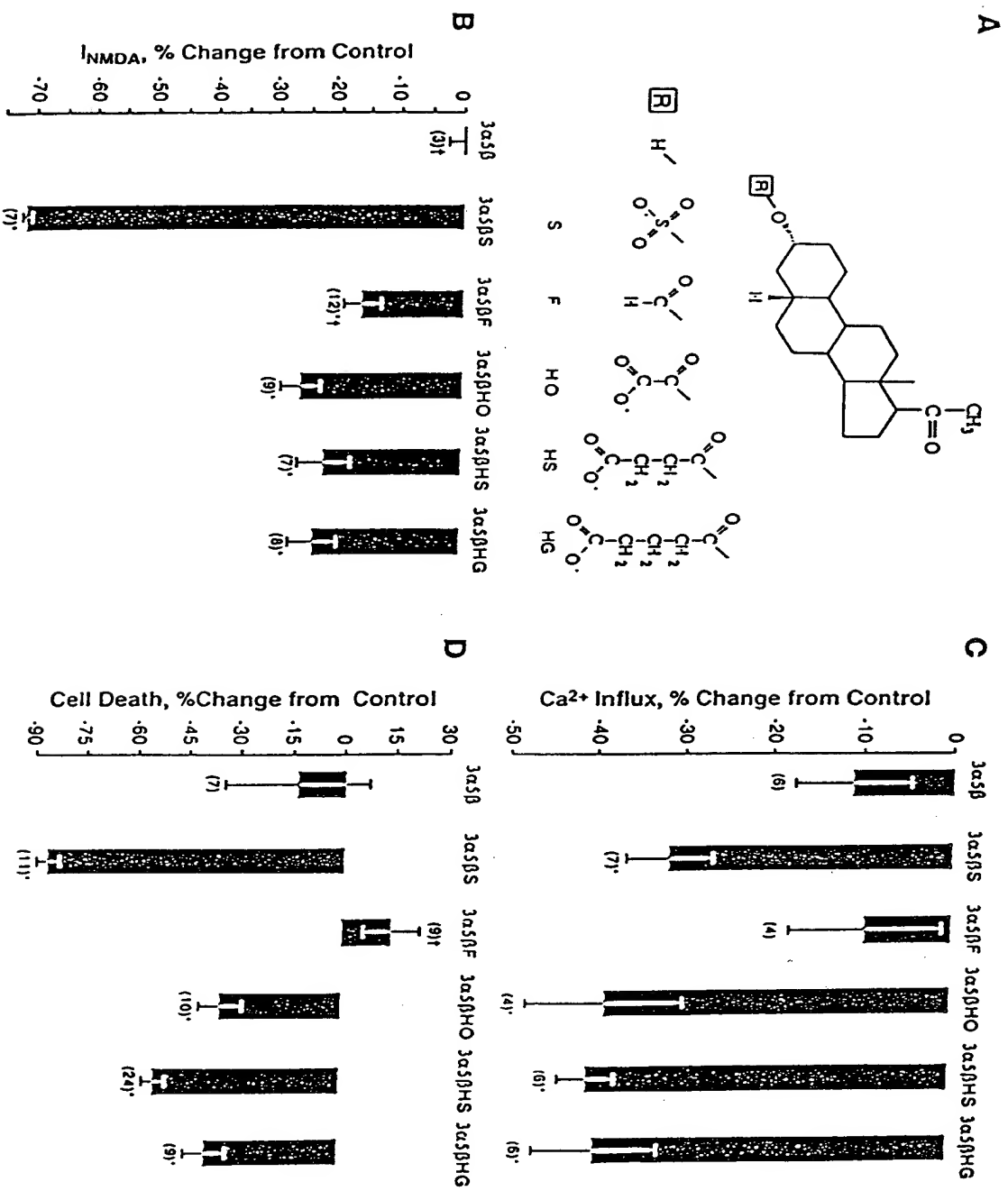


FIG. 7

09652345-083100

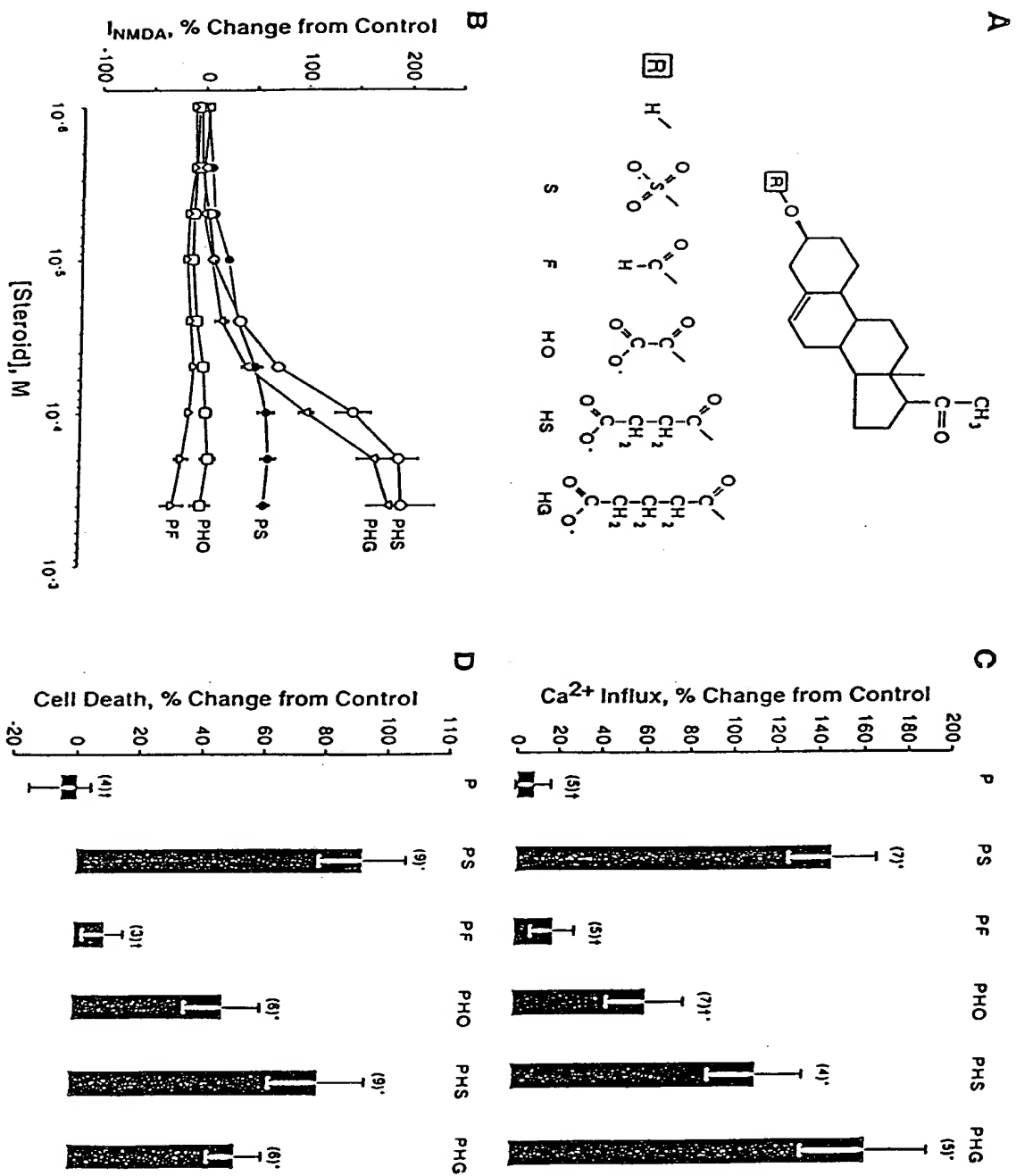


FIG. 8



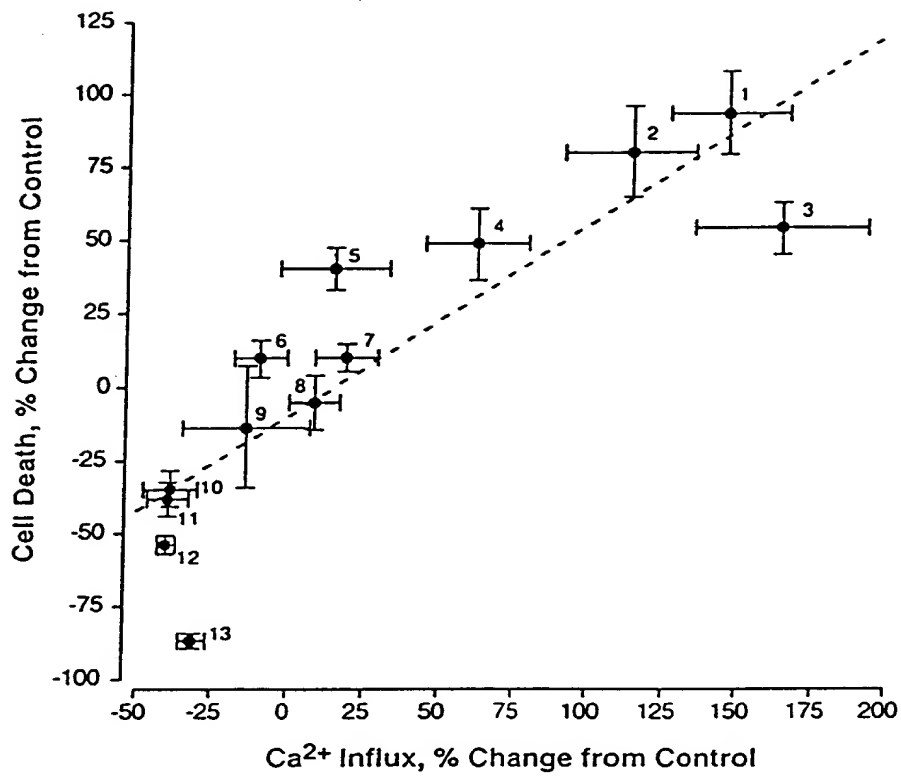
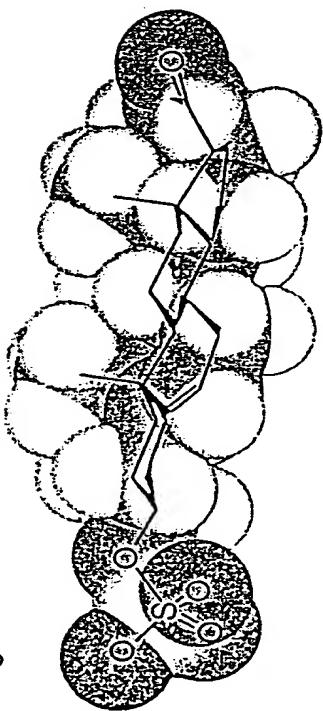


FIG. 9

007E80" 54E25960

Positive Modulators

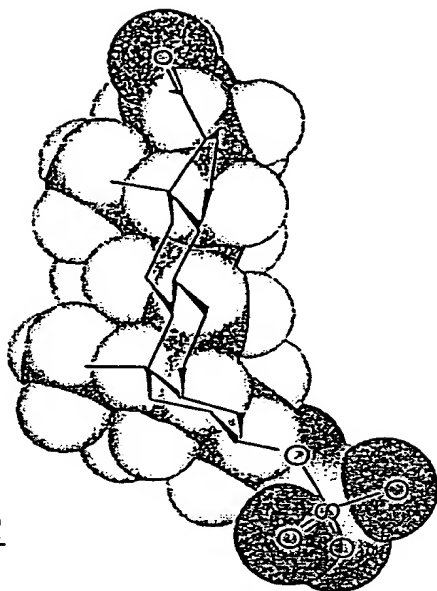
Pregnenolone Sulfate



3 $\beta$ 5 $\alpha$ S

Negative Modulators

3 $\alpha$ 5 $\beta$ S



3 $\beta$ 5 $\beta$ S

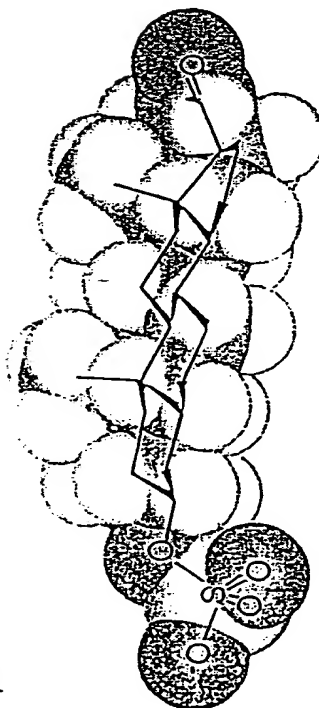


FIG. 10

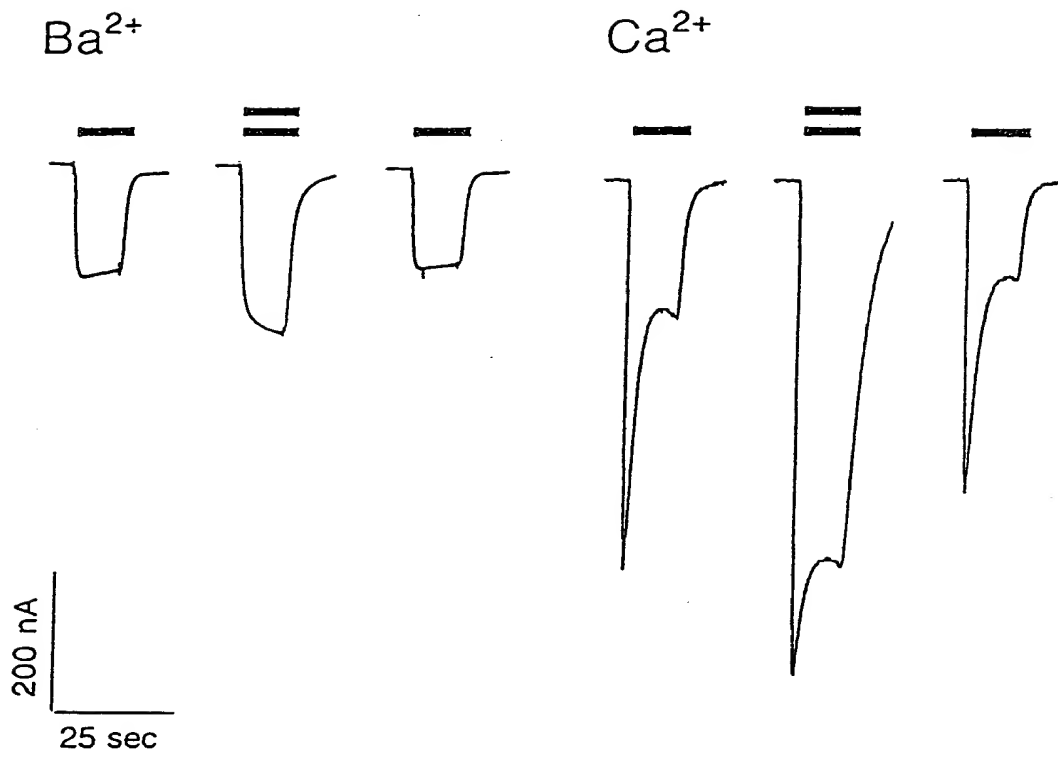


FIG. 11

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NR1<sub>xxx</sub>/NR2A  
NR1E/NR2A

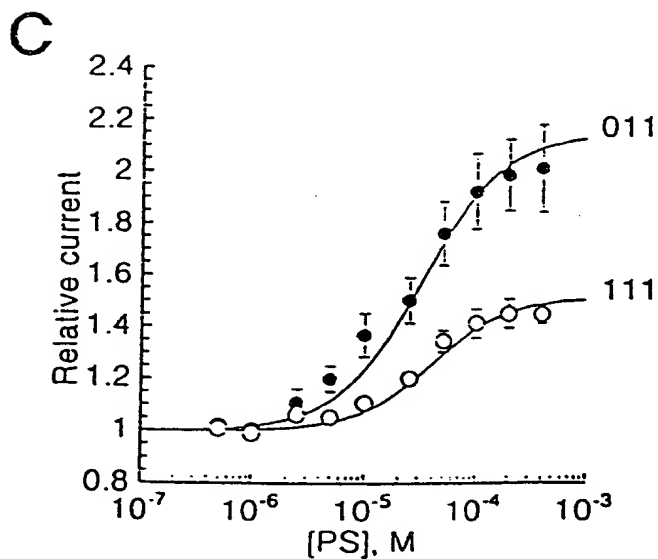
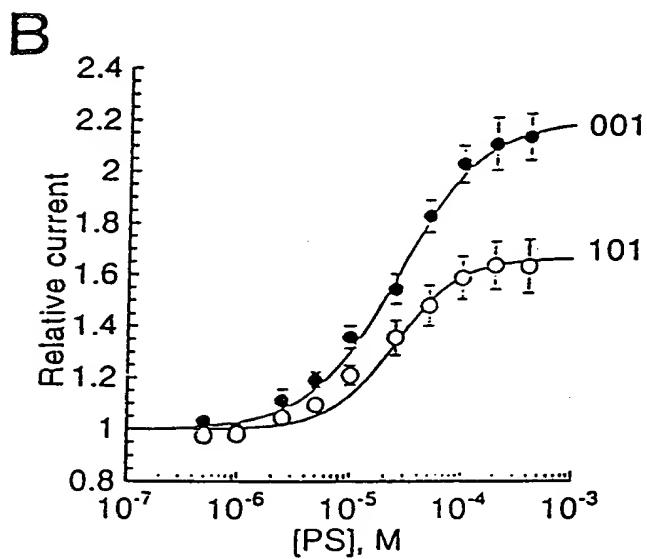
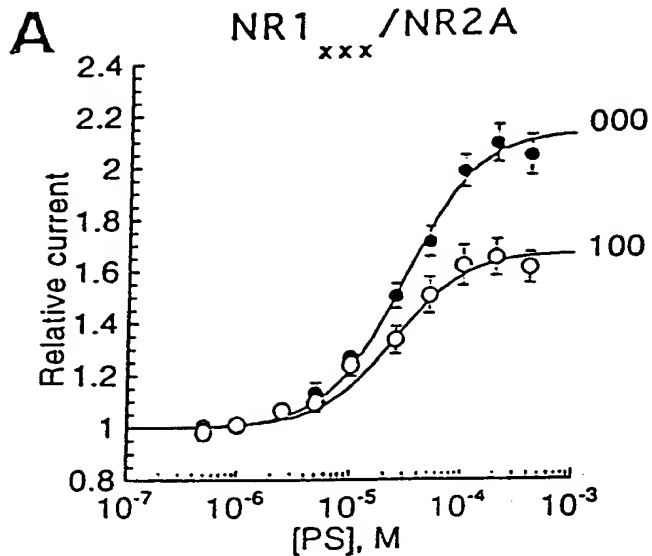
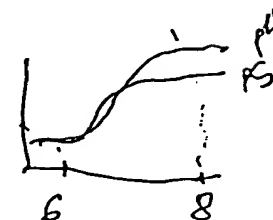


FIG. 12



007E80" 54E25960

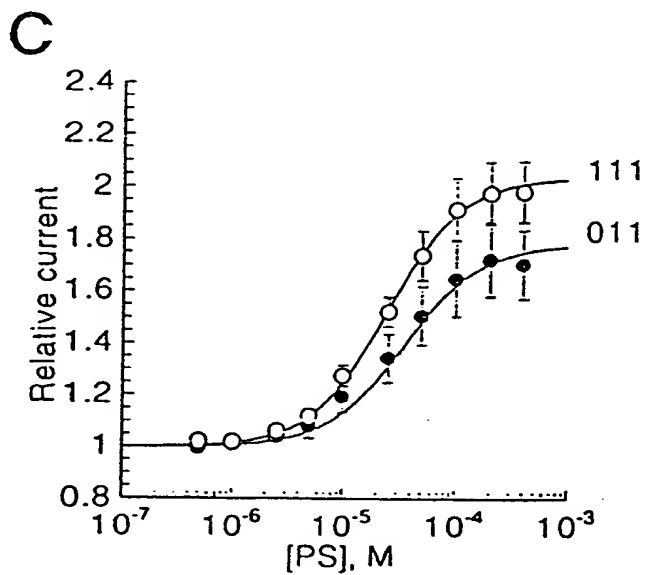
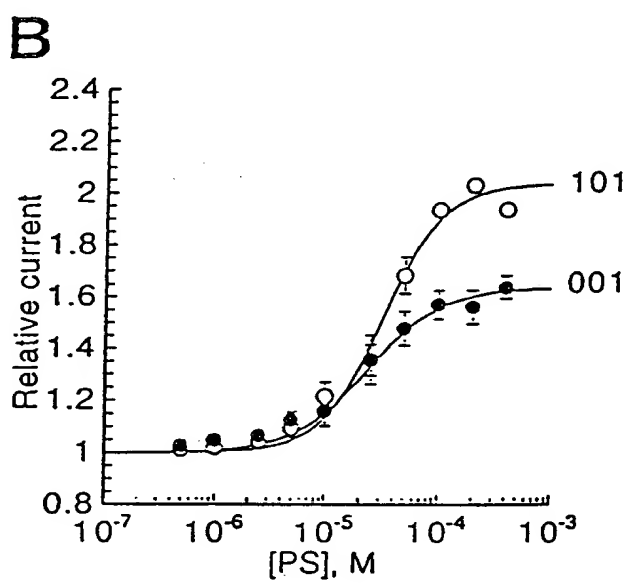
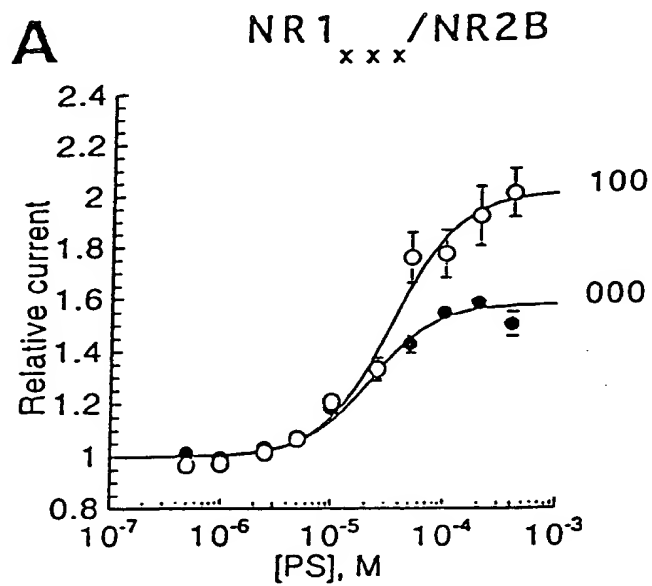


FIG. 13

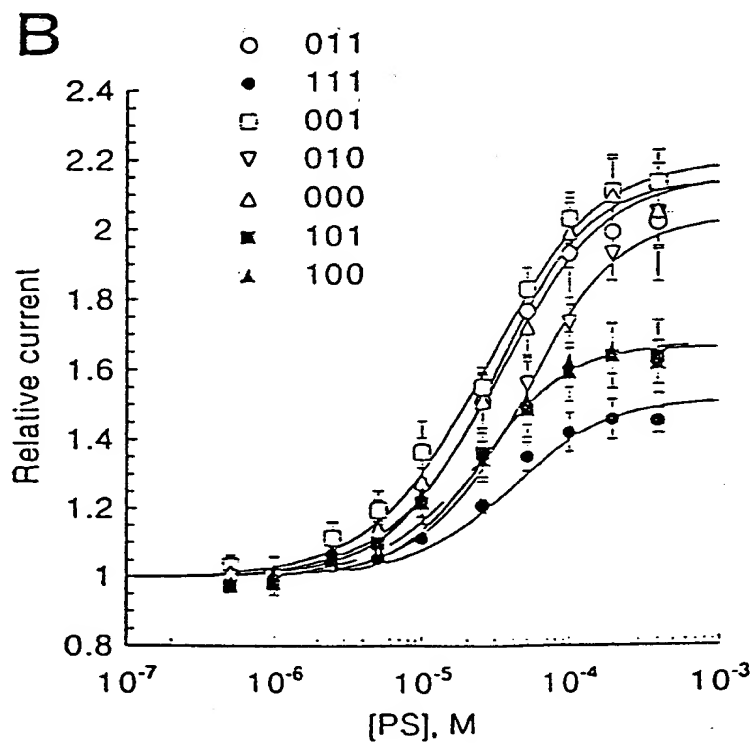
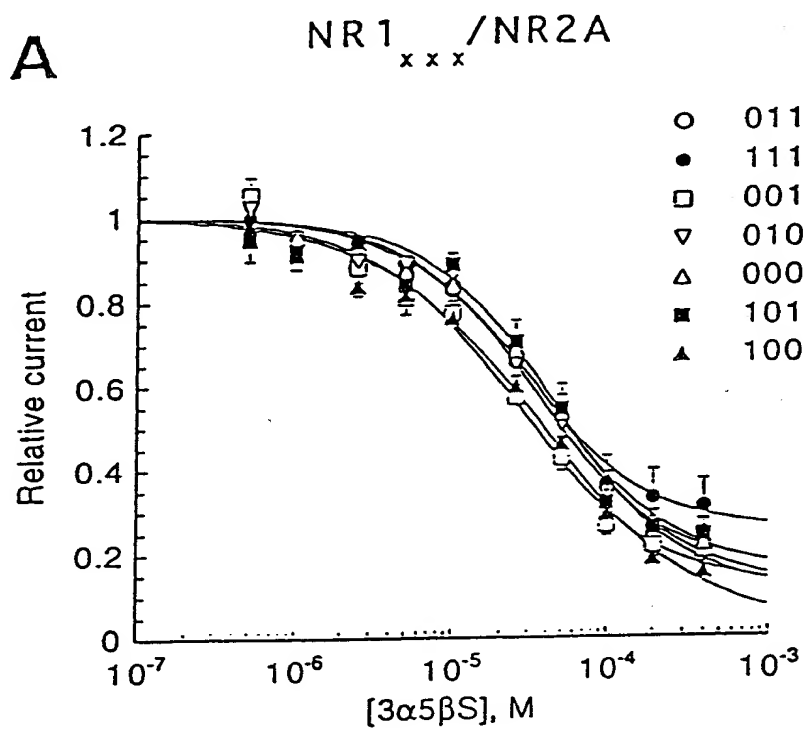


FIG. 14

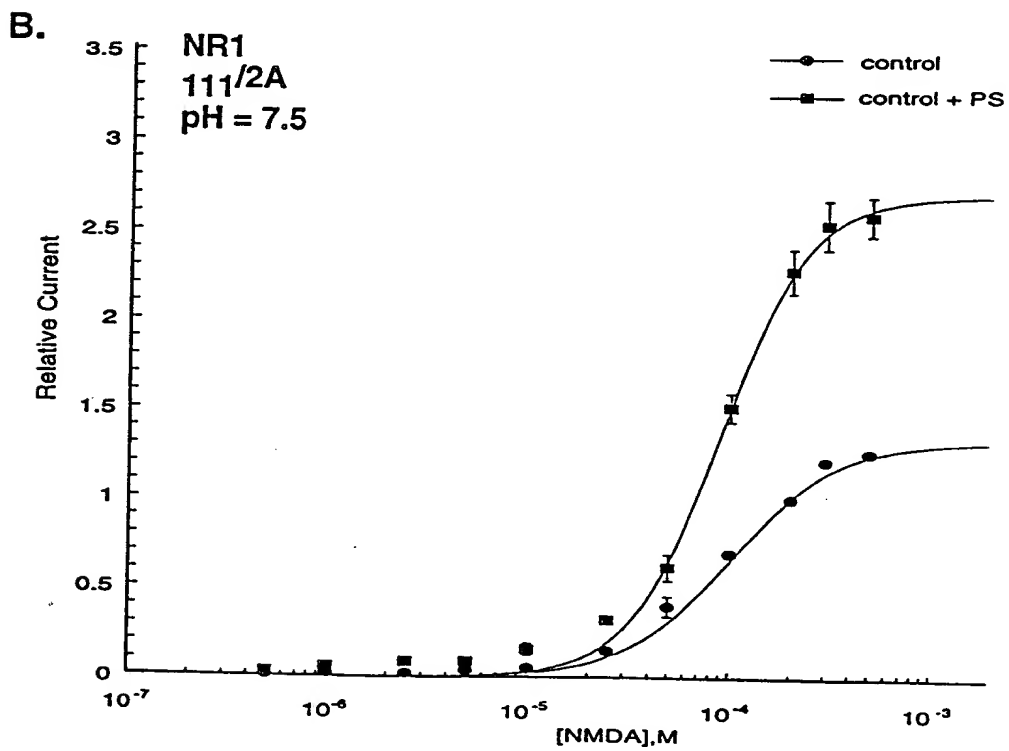
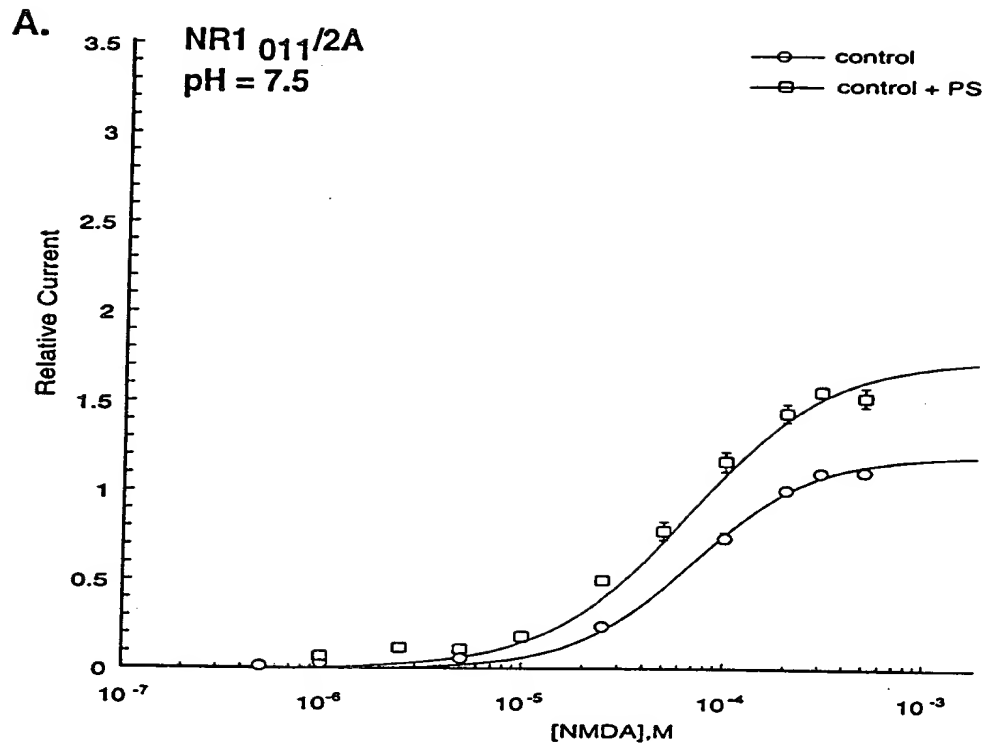


FIG. 15

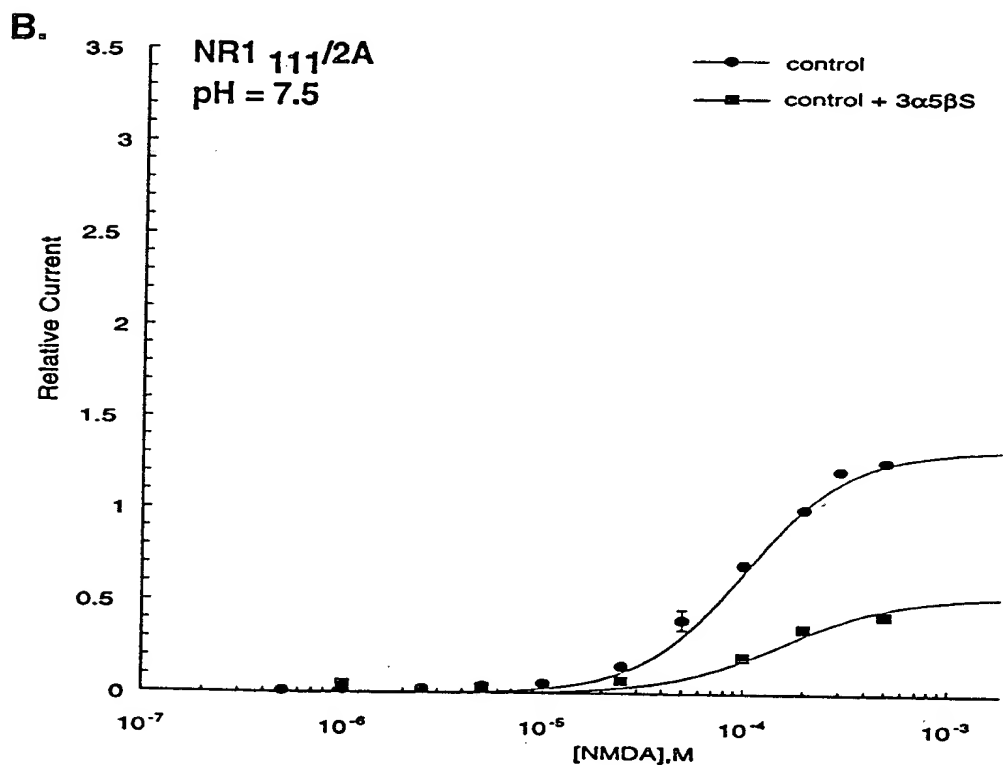
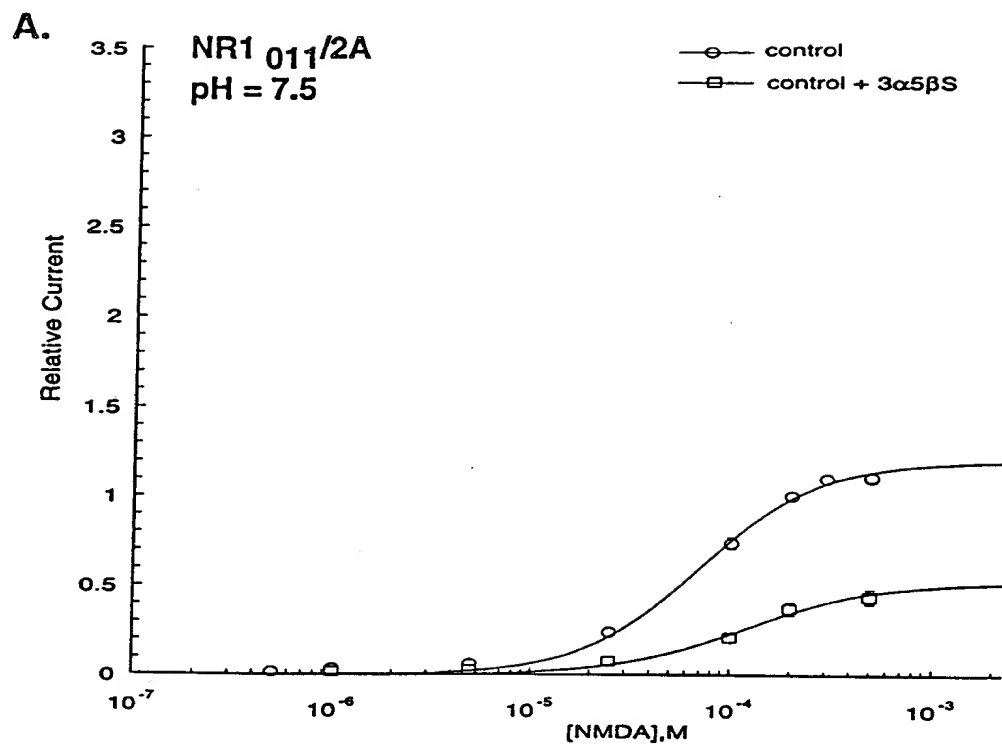
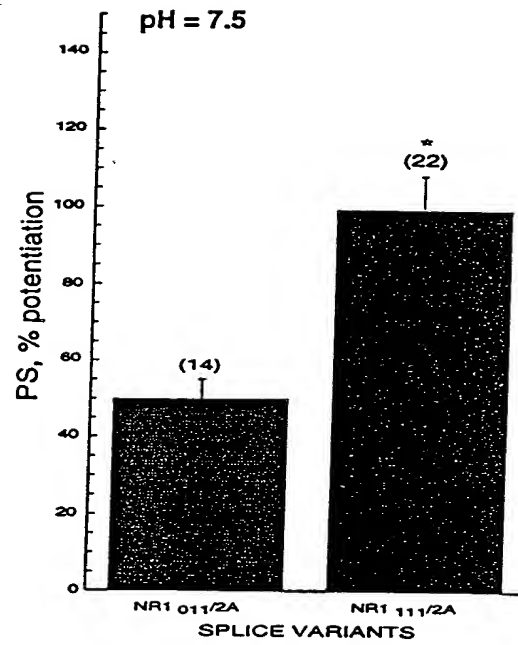


FIG. 16



A.



B.

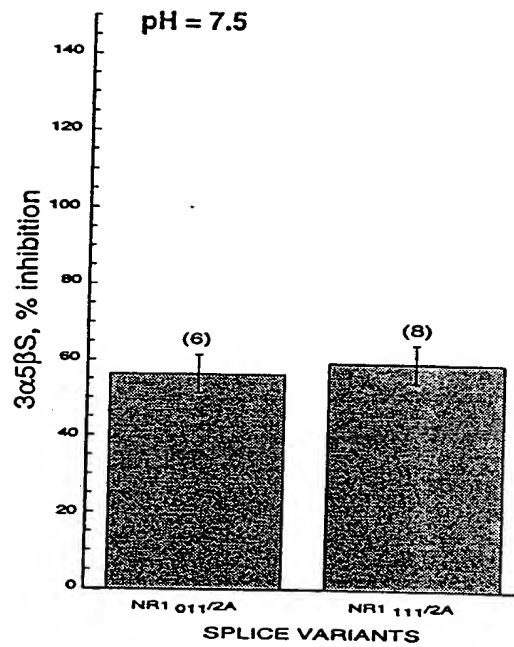
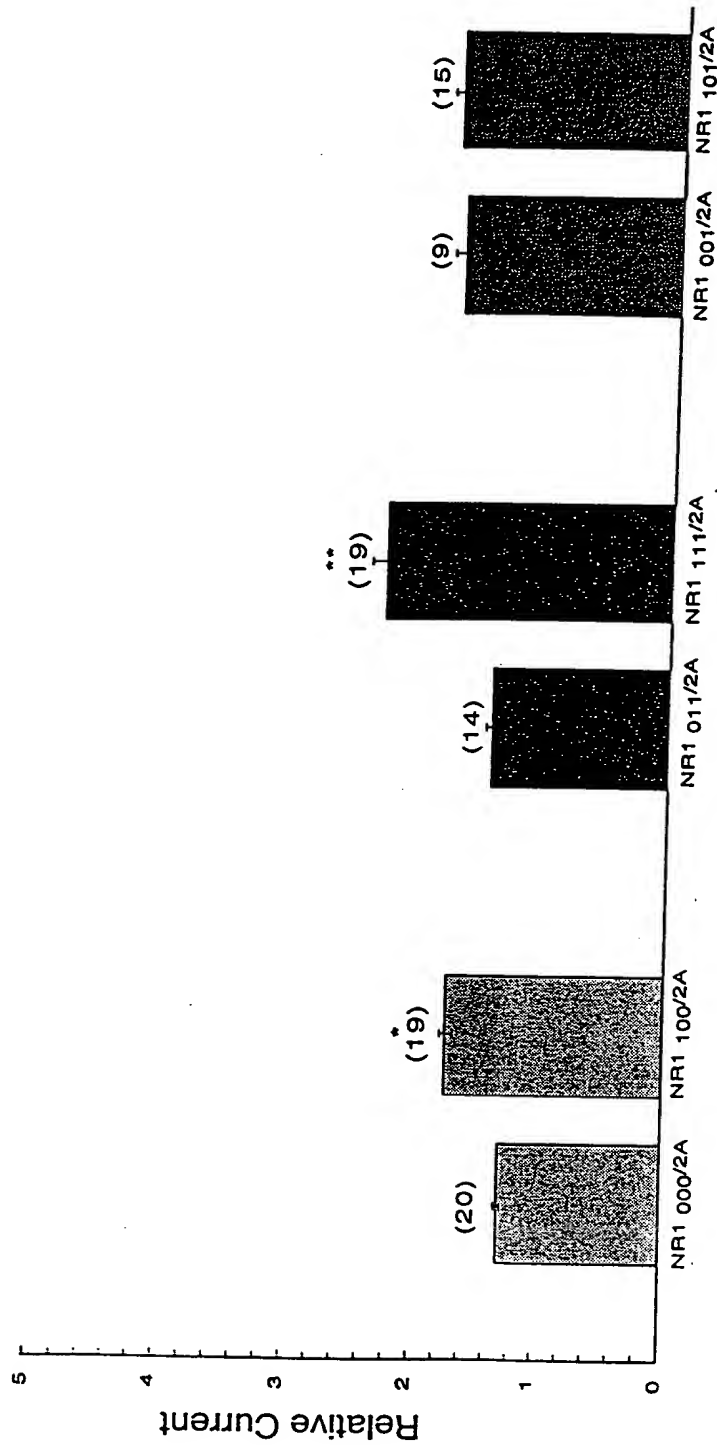


FIG. 17



SPICE VARIANTS

FIG. 18

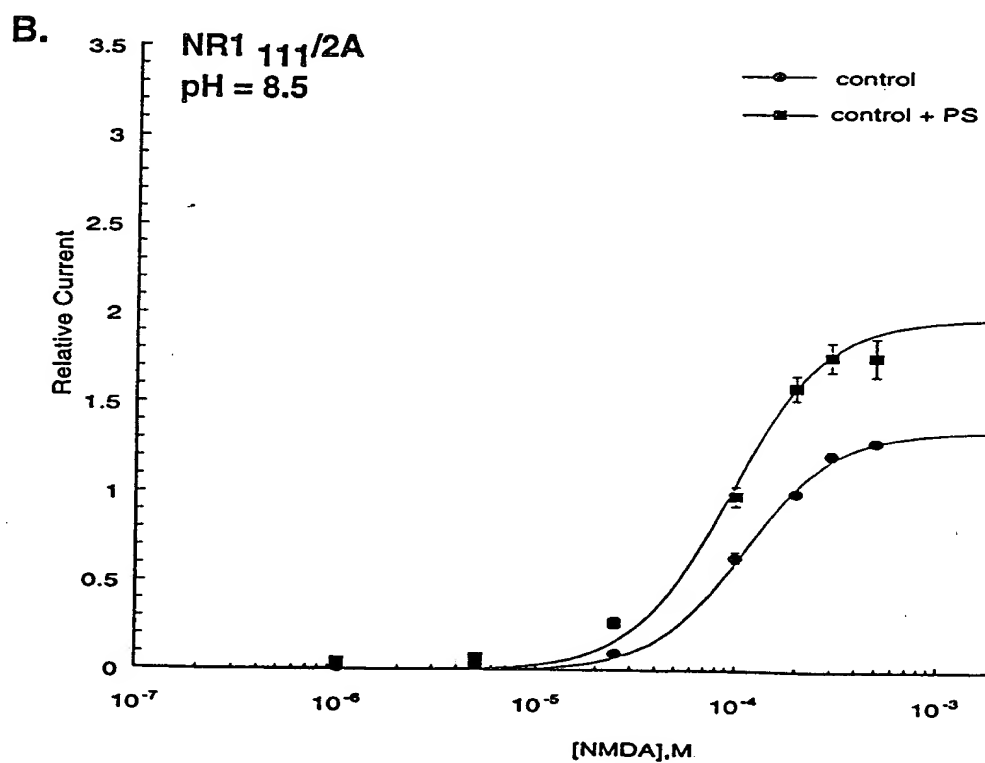
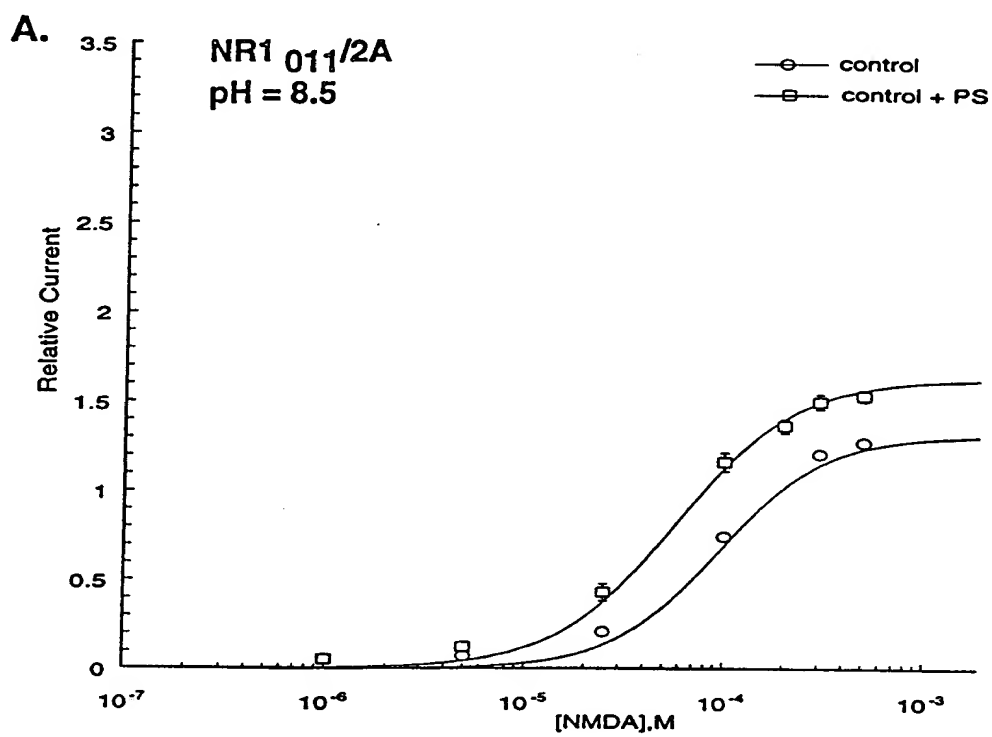


FIG. 19

**pH = 7.5**

Splice Variant	PS, % potentiation (approx.)	n	Significance
NR1 011/2A	48	14	
NR1 111/2A	98	22	*

**SPLICE VARIANTS**

pH = 8.5

Splice Variant	PS, % potentiation (approx.)	n
NR1 011/2A	24	10
NR1 111/2A	45	23*

FIG. 20

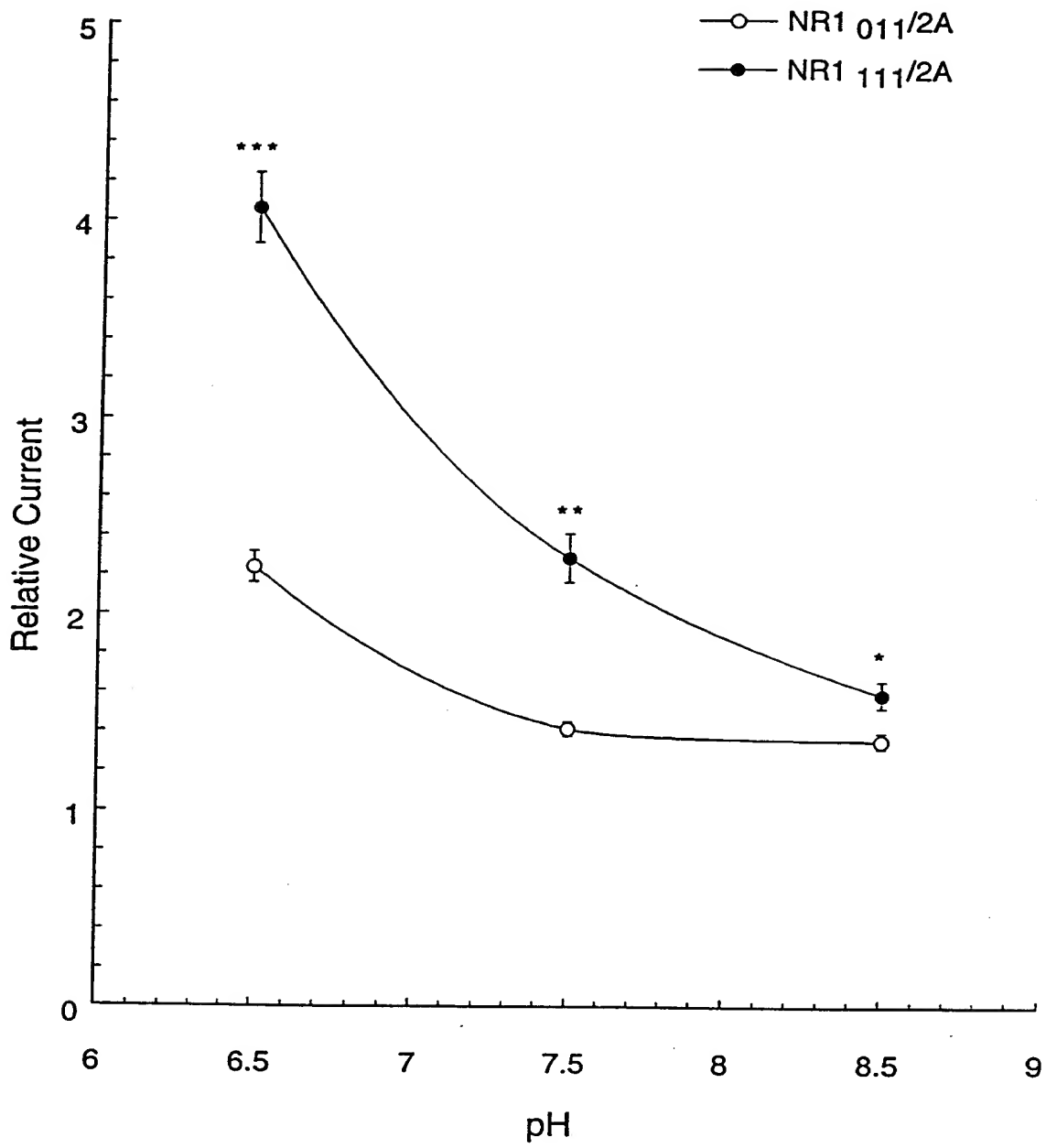


FIG. 21

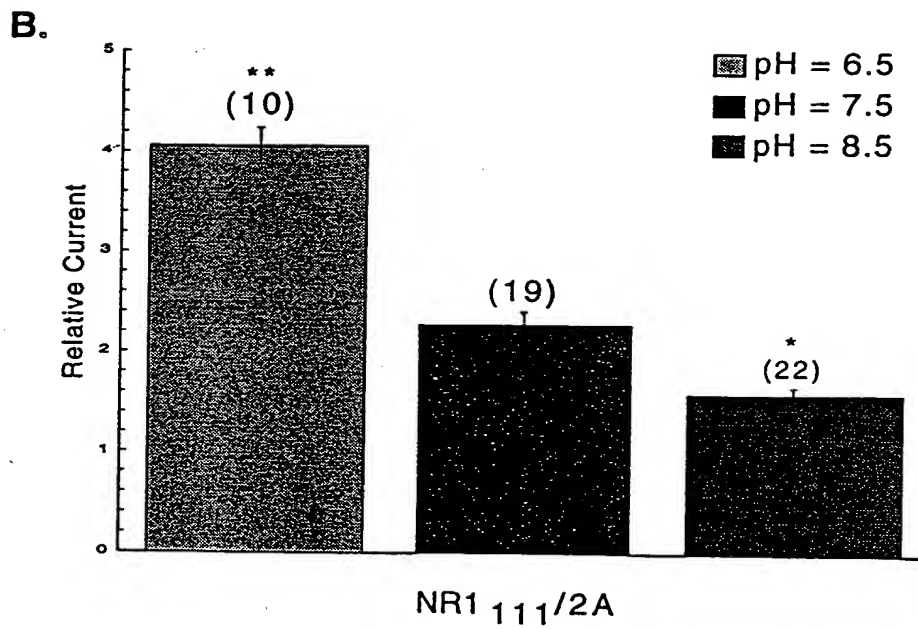
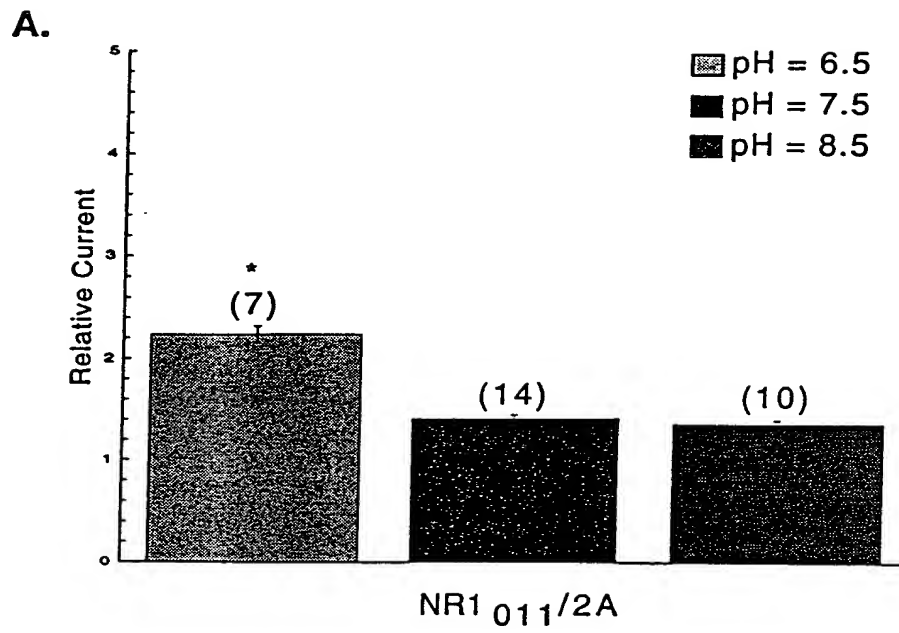


FIG. 22

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RXR-α  V.EWAKRIPH.FSELPL..DDQVILLRAGWNELLIA..SFSHR..SIA
RAR     V.EFAKRLPG.FTGLSI..ADQITLLKAACLDILML..RICTR..YTP
PR      V.KWSKSLPG.FRNLHI..DDQITLIQYSWM..SLMV..FGLGWR..SYK
GCR     V.KWAKAIPG.FRNLHL..DDQMTLLQYSWM..FLMA..FALGWR..SYR
ER      I.NWAKRVPG.FVDLTL..HDQVHLLECAWLEILMI..GLVWR..SME
NR1011  LME..ARELEARVIILSASEDDATVYRAAAM..LNMTGSGYVWLVGER

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FIG. 23

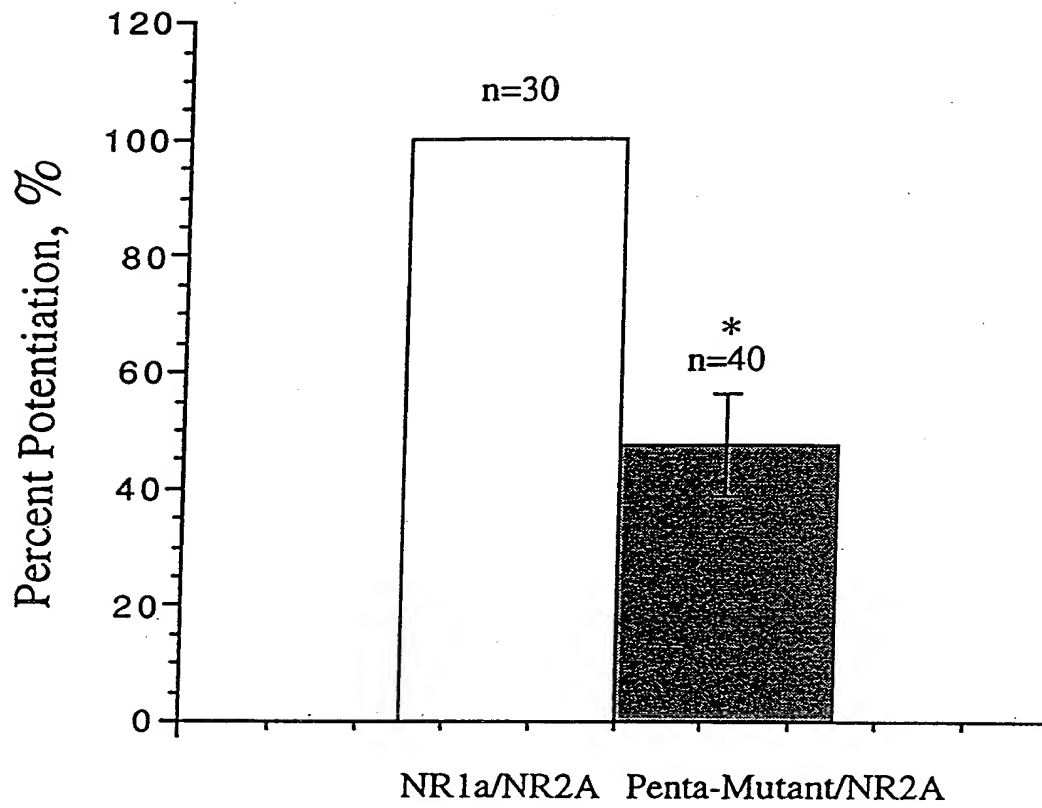


FIG. 24



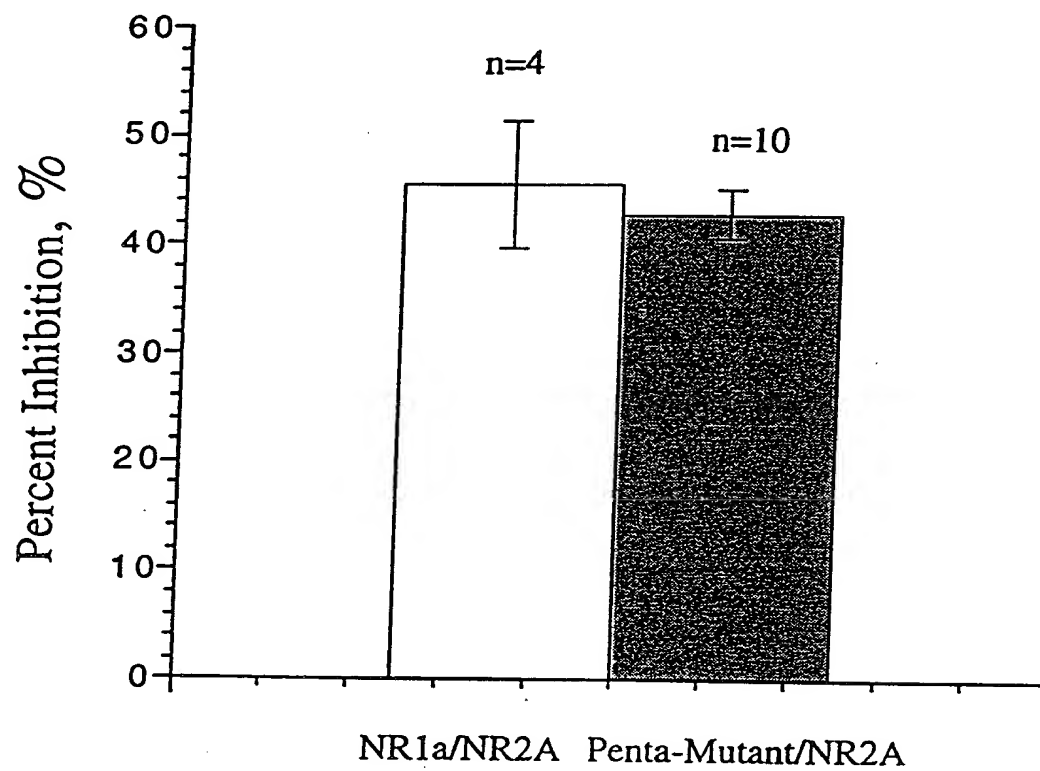


FIG. 25

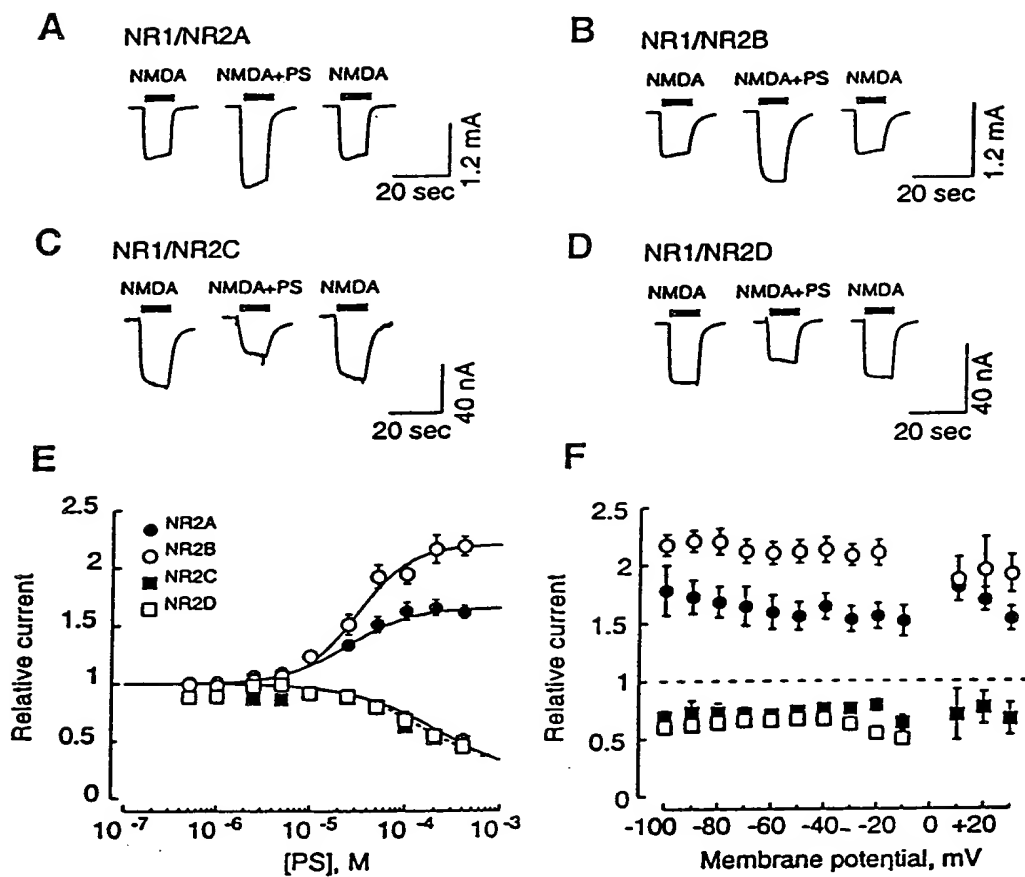


FIG. 26

--○-- Glutamate      --□-- NMDA  
 ● Glutamate + PS      ■ NMDA + PS

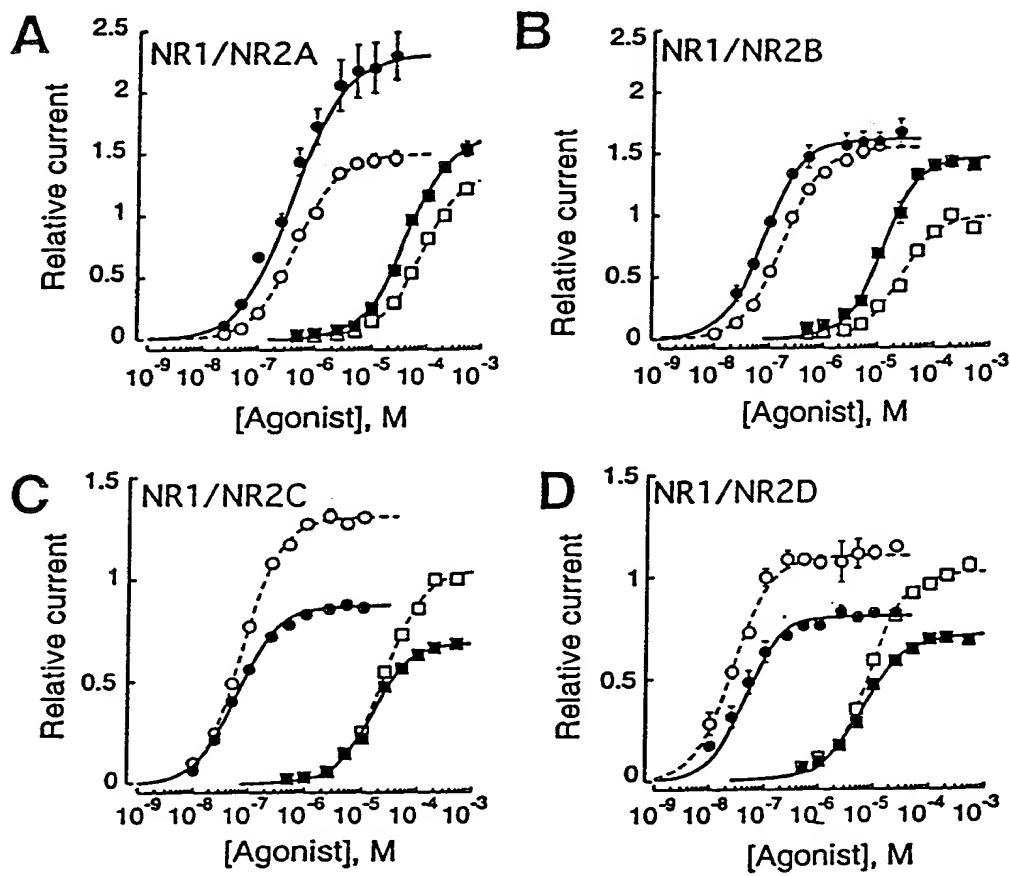


FIG. 27

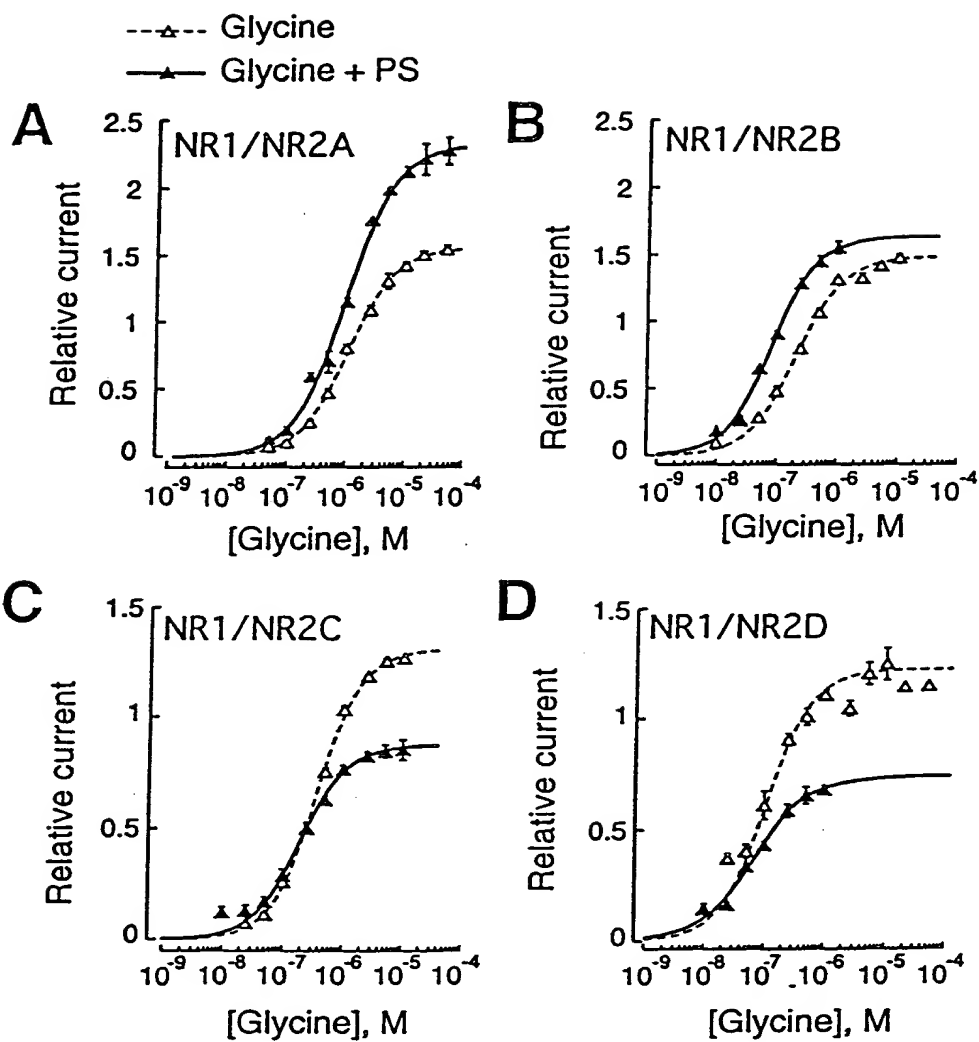


FIG. 28

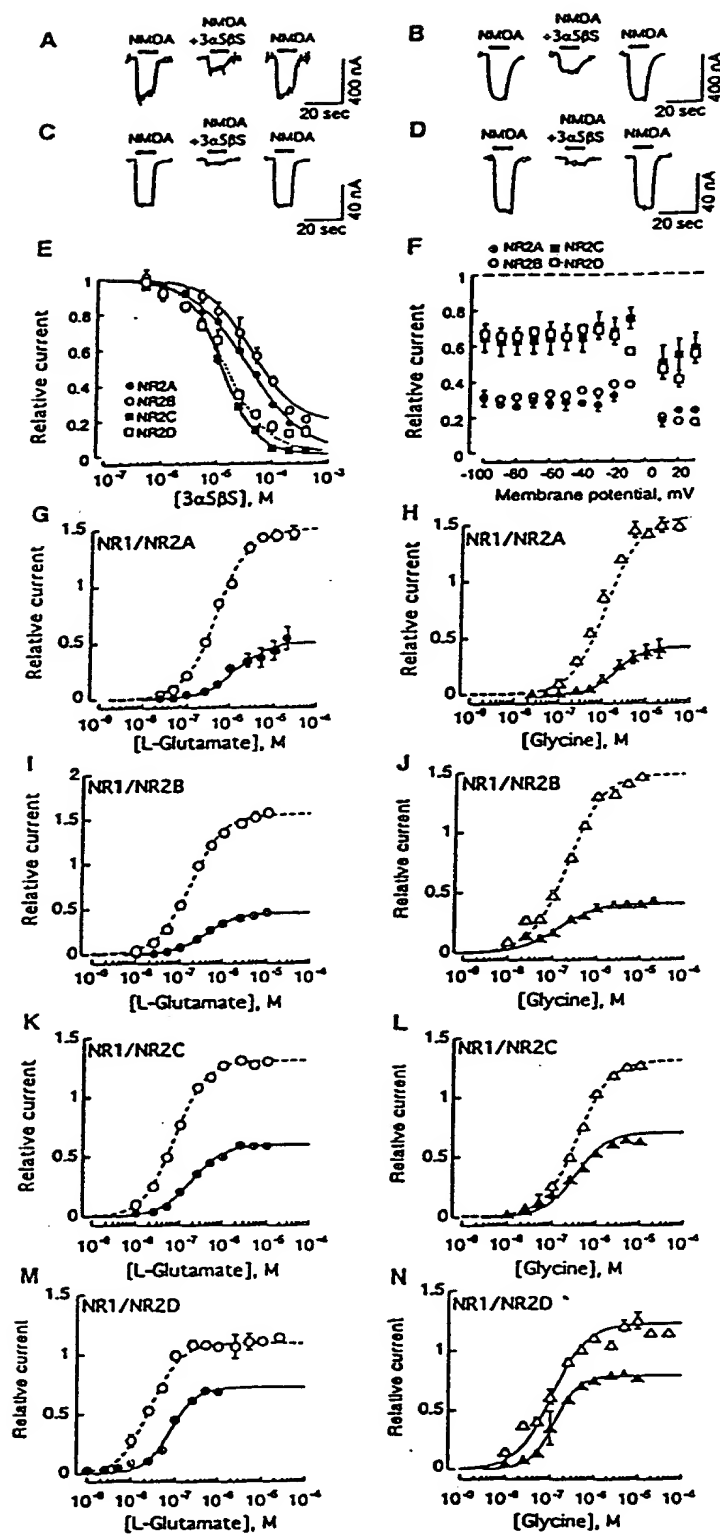


FIG. 29

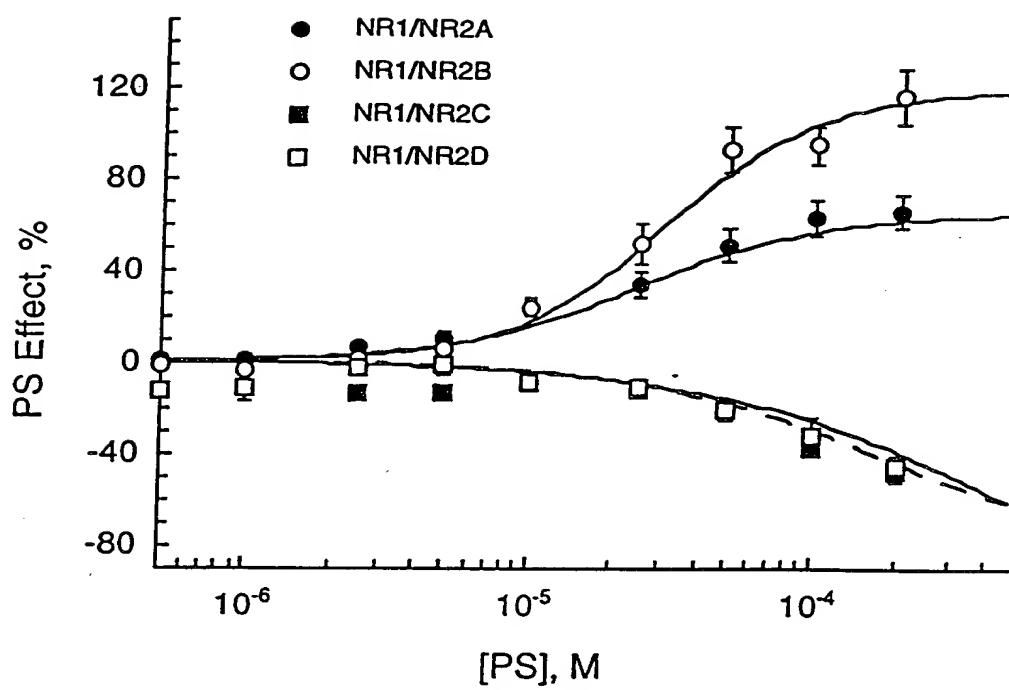


FIG. 30

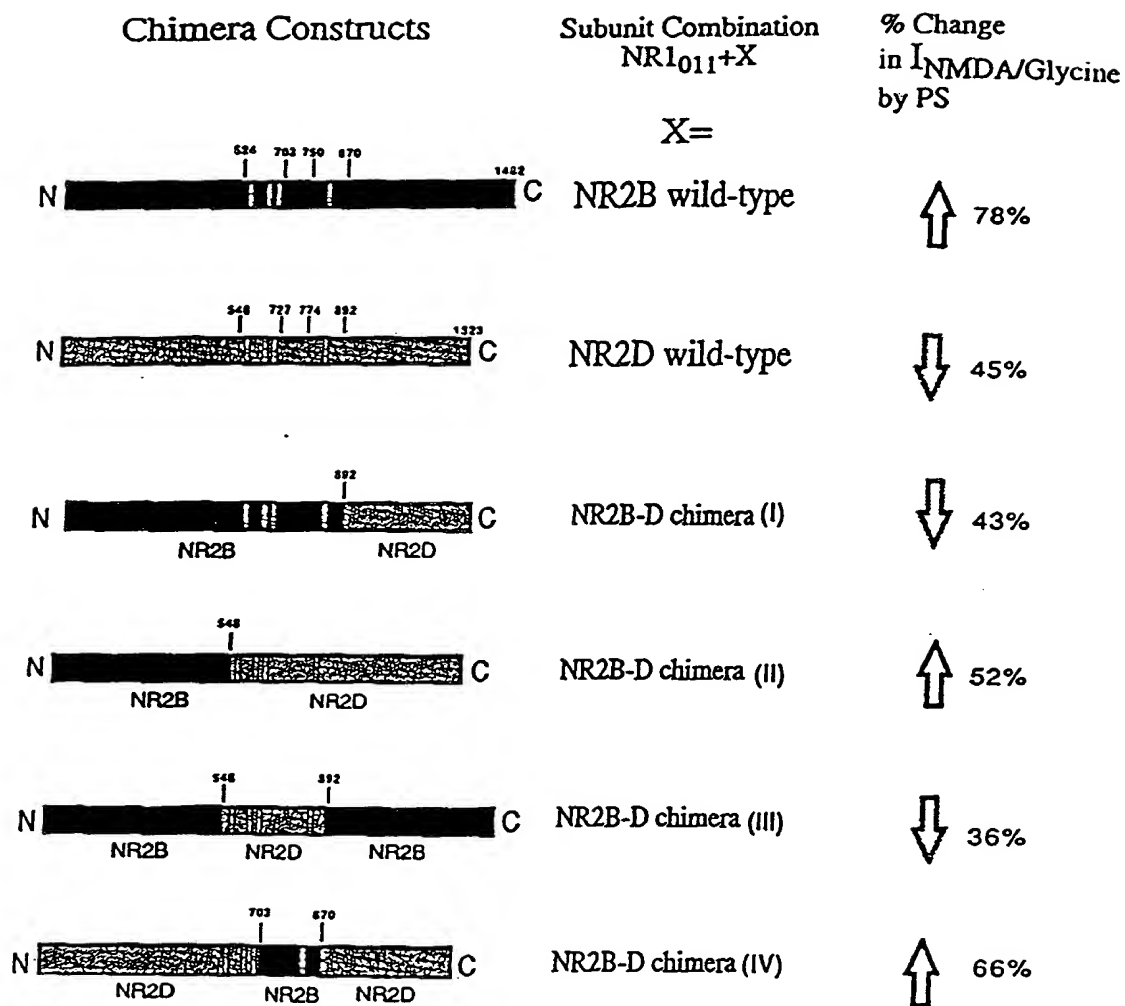


FIG. 31

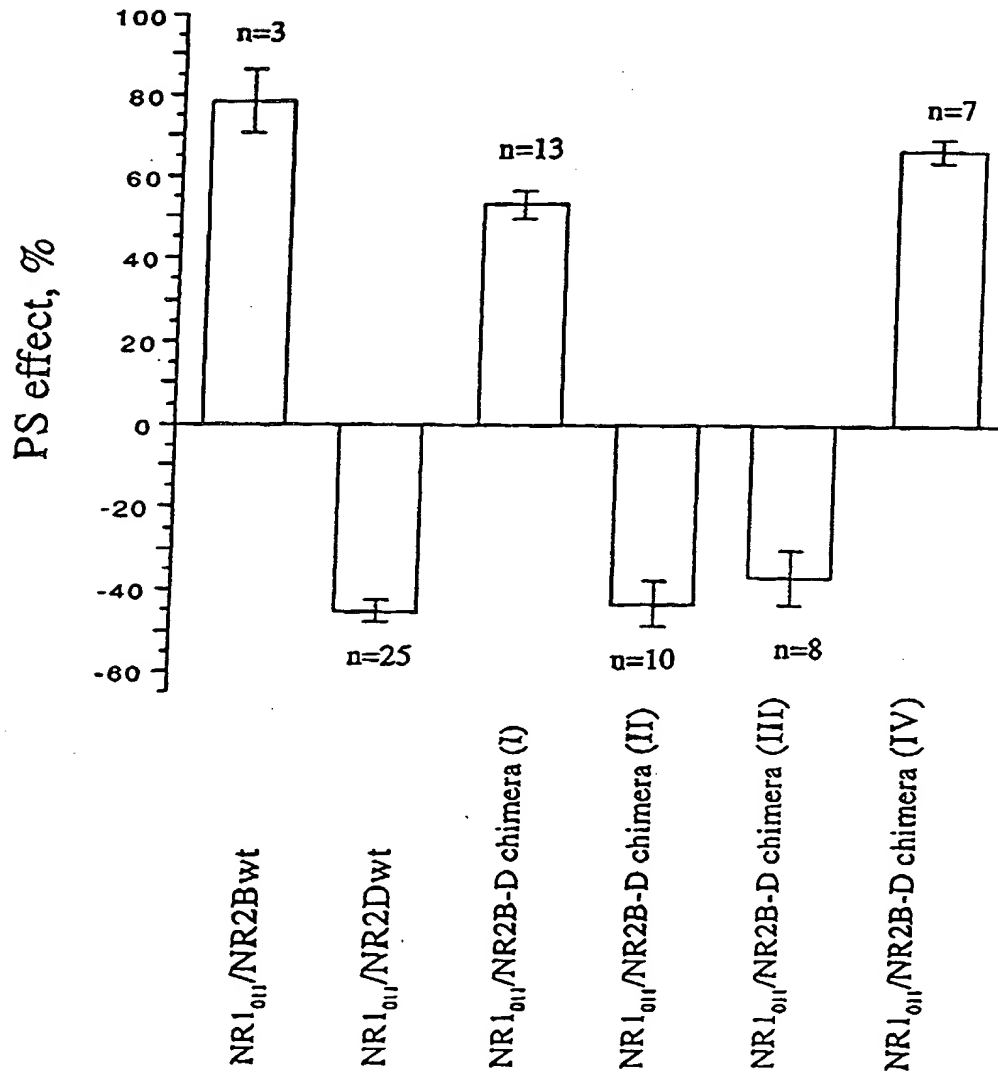


FIG. 32